PRAT, Vladimir; BENESOVA, Dagmar; DEJDAR, Rudolf; CERVINKA, Frantisek Technicka asistence: CAPKOVA, E.; DVORAKOVA, J.; KRAUSOVA, E.; LANKISCH, A.

Experimental pyelonephritis. IV. Effect of dynamic disorders of the ureter on renal excretion of E. coli in rabbits. Cas.lek.cesk. 99 no.44:1383-1389 28 0 '60.

1. Ustav pro choroby obehu krevniho v Praze-Krci, reditel akademik Klement Weber. - Katedra patologicke anatomie a mikrobiologie fakulty detskeho lekarstvi Karlovy university v Praze, prednosta doc. MUDr. Dagmar Benesova. - Ustav pro klinickou a experimentalni chirurgii v Praze-Krci, reditel prof. MUDr. Bohumil Spacek.

(ESCHERICHIA COLI INFECTIONS exper)

(PYELONEPHRITIS exper)

CERVINKA, Frantisek

Jaroslav Jiranek's book on Vit Nejedly. Vestnik CSAV 70 no.5:744-748 '61.

PRAT, Vladimir; BENESOVA, Dagmar; CERVINKA, Frantisek; Technicka spoluprace CAPKOVA, E.; DVORÁKOVA, J.

Experimental pyelonephritis. VI. Relation between temporary ischemia of the kidney and hematogenic colibacillus infection in rabbits. Cas. Lek. Cesk. 101 no.12:361-366 23 Mr '62.

1. Ustav pro choroby obehu krevniho v Praze, reditel akademik K. Weber. Katedra patologicke anatomie a mikrobiologie fakulty detskeho lekarstvi KU v Praze, prednou a doc. dr. D. Benesova. Ustav pro klinickou a experimentalni chirurgii v Praze, reditel prof. dr. B. Spacek.

(PTELONEPHRITIS exper) (KIDNEY blood supply)
(ESCHERICHIA COLI INFECTIONS exper)

"PRAT, V.; BROD, J.; BENESOVA, D.; DEJDAR, R.; FENCL, V.; HORAK, O.; CERVINKA, F.; KRATOCHVILOVA, J.; PAVKOVA, L.

Research on chronic pyelonephritis during the first ten years of the Institute for Cardiovascular Research. Rev. czech. N. 8 no.2: 113-123 162.

1. Institute for Cardiovascular Research, Prague; Director: Academician K. Weber, Department of Morbid Anatomy and Microbiology, Faculty of Pacdiatrics, Charles University, Prague; Heads Doc. Dr. D. Benesova, Institute of Clinical and Experimental Surgery, Prague; Director: Prof. Dr. B.Spacek.

(PYELONEPHRITIS statistics)

KOCVARA, S.; HAHN. M.; CERVINKA, F.; ZAK, F.; HATALA, M.

Bacteriological examination in chronic prostatitis. Rozhl. chir. 42 no.5:321-326 My *63.

1. Ustav klinicke a experimentalni chirurgie v Praze, reditel prof. dr. B. Spacek, DrSc. II patologickoanatomicky ustav fakulty vseobecneho lekarstvi KU v Praze, prednosta prof. dr. V. Jedlicka.

(PROSTATITIS) (STAPH INFECTIONS) (STREPTOCOCCAL INFECTIONS) (STREPTOCOCCUS FAECALIS)

CERVINKA, F.; KRAJICEK, M.; LISKA, M.; VRUHEL, J.

Notes on the question of the antigenicity of collagen. Folia biol. (Praha) 10 no.2294-97 '64.

1. Institute of Clinical and Experimental Surgery, Prague.

CERVINKA, F.; LISKA, M.; VRUBEL, J.

Alteration of experimental lymphedems with corticosteroids and antihistaminics. Cas. lek. cesk. 103 no.28:797-799 6 J1 64

1. Ustav klinicke a experimentalni chirurgie v Prase; reditel: prof. dr. B.Spacek, DrSc.

CERVINKA, F. Technicka spoluprace HNATEK, J.

Biological effectiveress of chlortetracycline and other antibiotics in damaged nuscle. Rozhl. chir. 44 no.5:321-325 My¹65.

1. stav klinicke a experimentalni chirurgie v Praze (reditel: prof. dr. B. Spacek, DrSc.).

VRUBEL, J.; LISKA, M.; CERVINKA, F.; PAVLIK, F. Technicka spoluprace: KOLCOVA, M.; VANIGKOVA, J.

The influence of lymphatic fistulae on the development of transplantation immunity. Rozhl. chir. 44 no.5:348-350 My165.

1. Ustav klinicke a experimentalni chirargie v Fraze (reditel: prof. dr. B. Spacek, DrSc.).

JOURNAL ARTICLE (Condensation)

Source: Engineers' Digest, January, 1958, Vol 19, Nr 1, pp 13-14

Author: J. Cervinka

Title: New Sensing Device for Thermal Protection

(Original Source: Elektrotechnicky Obzor, Vol 46, Nr 11, 1957, pp 597-600

7 illustrations.)

KOLOMBO, St., inz. (Tanvald); CERVINKA, J. (Tanvald)

Noncontact pickup of axial movements of rotating bodies. Energetica Cz 13 no.8:446-447 Ag 163.

CERVINKA, Jiri, inz.

Remarks on factors affecting the thermal conductivity of refrigerator car insulation. Prum potravin 15 no.1:34-36 Ja 164.

1. Zavody Vitezneho unora, n.p., Vyzkumny ustav stroju chladicich a potravinarskych, Praha.

KOLOMBO, Stanislav, inz.; CERVINKA, Josef

Measurement of the shifting of steam turbine rotors and protection against its dangers. Energetika Cz 12 no.5:234-241 My '62.

1. Vyzkumny ustav energeticky, Tanvald.

KOLOMBO, S., inz.; CERVINKA, J.

Device for protecting the turbine in case of excessive displacement or elongation of rotor er stater.

Strojirenstvi 12 no.8:617-619 Ag '62.

1. Energeticky ustav, Tanvald.

BERGSTEIN, A.; BURDA, E.; CERVINKA, L.

High-temperature X-ray chamber. Silikaty 7 no.1:61-63 '63.

1. Ustav technicky, Ceskoslovenska akademie ved, Praha.

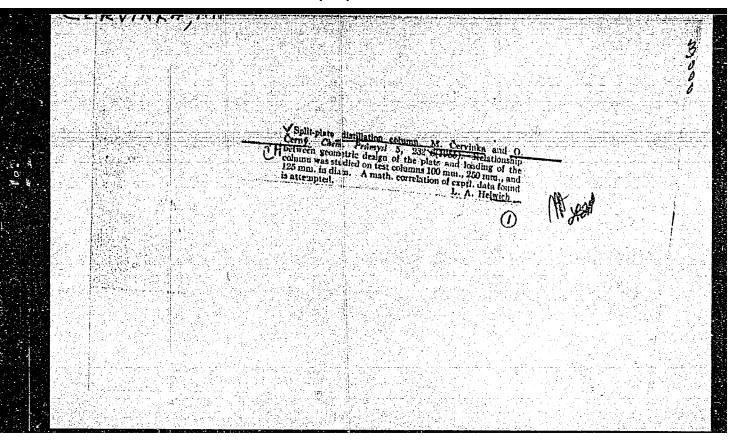
L 18810-66 EWT(1)/T/EWP(±) JD/HW/GG ACC NR. AP5015930 SOURCE CODE: CZ/0055/65/015/006/0425/042 AUTHOR: Cervinka, L. ORG: Institute of Solid State Physics, Czechoslovak Academy of Sciences, Prague 21, 44,55 TITLE: Comparison of lattice vibrations in nickel- and manganese-ferrite single crystals Chekhoslovatskiy fizicheskiy zhurnal, v. 15, no. 6, 1965, 425-427 SOURCE: crystal lattice TOPIC TAGS: ferrite, manganese, nickel, crystal, Vibration, single crystal, polycystal x nay missiment ABSTRACT: X-ray measurements of the mean square amplitude of lattice vibrations made previously on several kinds of polycrystalline ferrospinel materials and on the cubic part of the system Mn Fe_{3-x}O₄ were repeated in a recent experiment on single crystals of the composition $Mn_{1.66}Fe_{1.33}O_4$ and Ni Fe₂ O_4 . The greater value of the mean square amplitude obtained for Mn-ferrite is consistent with results on polycrystalline samples, and is a further confirmation of the existence of local Jahn-Teller distortion in manganese ferrite. The graph of characteristic differences between manganese and nickel ferrite is presented. The author thanks Dr. K. Toman of the Institute of Macromolecular Chemistry for valuable advice, Dr. S. Krupicka of the Institute of Solid State Physics for helpful discussions, Dr. A. Linek of the same Institute for help in preparing the computer programs, and Mrs. A. Dobrovodska for measurements and evaluations. Orig. art. has: 1 figure. [Based on Author's Card [JKP] 1/2

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CERVIEKA, II.

Time schedule for assembling operations of the 12 MW turbine. p. 117. STROJIRENSKA VYROBA, Praha, Vol. 3, no. 3, Mar. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.



Z/009/60/010/05/010/040 **E**142**/E**135

AUTHOR: Max Cervinka

TITLE: Solubility of Chlorine in Benzene and Chlorobenzene

PERIODICAL: Chemický Průmysl, 1960, Vol 10, Nr 5, pp 249-251

ABSTRACT: Available literature data only give the solubility of chlorine in benzene at 20 °C when the relevant Henry constant H = 3.8×10^3 mm Hg. The author determine The author determined this constant at different temperatures and also carried out experiments on the solubility of chlorine in chlorobenzene so that values for the solubility in a mixture of benzene-chlorobenzene for various temperatures could be determined by interpolation. Benzene and chlorobenzene, purified by rectification on a 20-plate column, was used during the experiments: the fractions had constant boiling points. The solubility was determined by the dynamic absorption method. A Balej and Regner apparatus was used. The temperature of the absorption liquid was maintained with an accuracy of # 0.5 °C; photo-chlorination was prevented by coating

Card 1/2

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the apparatus with a dark red lacquer. Graphs in Figs

1-3 show the dependence of the solubility on the

2/009/60/010/05/010/040 E142/E135

Solubility of Chlorine in Benzene and Chlorobenzene

concentration of the gas. The corresponding partial pressures of chlorine were calculated from the composition of the gas. Table 1 gives values of the Henry constant, calculated from experimental data by the method of least squares. From the obtained experimental results it is also possible to calculate the mean molar heats of solubility for chlorine for

Card 2/2

temperature limits between 20 and 70 °C.
There are 4 figures, 1 table and 3 references, of which 2 are Czech and 1 is Soviet.

ASSOCIATION: Výzkumný ústav organických syntéz, Pardubice-Rybitví (Research Institute for Organic Syntheses, Pardubice-Rybitví)

SUBMITTED:

April 24, 1959

CERVINKA, Max; RICHLER, Jan.

Monogram for computation of vapor velocity in a rectifying column. Chem prum 12 no.1:24-25 Ja '62.

1. Vyskumny ustav organickych syntes, Pardubice-Rybitvi.

CERVINKA, Milos

Improving the thermal relations of metallothermic melts. Hut listy 16 no.9:622-629 S *61.

1. Vyzkumny ustav hutnictvi seleza, Praha.

ACCESSION NR: AP5026881	IJP(c) JD CZ/0034/65/000/006/0394/0400
AUTHOR: Cervinka, Milos (Engineer); Karnovsky, Milos (Engineer)
TITLE: Ways of refining i	
SOURCE: Hutnicke listy, r	
TOPIC TAGS: ferroalloy,	silicon, metal melting
not remove Al; fluorspar, amounts of these agents we and substantial deposits we too large amounts of silic agents. At present the me	a suitable agent for refining ferro-silicon, as it does air, and quartz sand behave in a similar way. Very largould be required to remove limited amounts of aluminum, would form in the metal. Oxygen, when used, burns off con. Limestone and Mg compound are the most promising set frequently used agents are: Cl, CO2, synthetic slags, and the so-called combined technique. 6 graphs, 1 figure.
not remove Al; fluorspar, amounts of these agents we and substantial deposits we too large amounts of silic agents. At present the me acid lining of the furnace	air, and quartz sand behave in a similar way. Very largered to remove limited amounts of aluminum, would form in the metal. Oxygen, when used, burns off con. Limestone and Mg compound are the most promising ost frequently used agents are: Cl, CO2, synthetic slags and the so-called combined technique.

L 38867-66 EWP(t)/ETI IJP(c) ACC NR. AP6029558 SOURCE CODE: CZ/0057/65/000/011/0481/0485 AUTHOR: Cervinka, Milos CRG: Research Institute for Iron Metallurgy, Prague (VUHZ) TITLE: Production of complex Fe-lin-Si-Al deoxidizers 4 SOURCE: Hutnik, no. 11, 1965, 481-485 TOPIC TAGS: iron alloy, manganese alloy, silicon alloy, aluminum alloy, alloy composition, are furnace, metallurgic process Production of deoxidizers similar to the US Simanal type was investigated. 13 alloys were produced: Type 1 containing 60% Mn, 15% Sicho Al, balance Fe; Type 2 containing 35% Mn, 35% Si, 7% Al, balance Fe; Type 3 containing 18% Mn, 18% Si, 18% Al, balance Fe. Alloy type 1 is easily produced by aluminothermic methods, using ordinary raw materials; its use resulted in Mn yields from ore of above 90%. Types 2 and 3 must be produced in an arc ABSTRACT: 1 furnace; the induction furnace should operate at about 2400 cycles. Conditions for preventing the decomposition of the alloy Type 2 are discussed. [JPRS: 34,519] SUB CODE: 11 / SUBM DATE: none / ORIG. REF: 003 / SOV REF: 001 no

CERVINKA, O.; KCZMAL, F.

Fulping possibilities of eucalyptus wood. p. 196

PAPIR A CELUL**CSA.** (Ministerstvo lesu a drevarskeho prumyslu) Praha, Czechoslovakia. Vol. 14, no. 9, Sept. 1959

Monthly List of East European Accessions (EEAI) LC, vol. 9, no. 1, Jan. 1960

Unc.

CERVINKA, Oliver, inz.

Pulping waste, a raw paterial for furfurole production. Papir a celulosa 18 no.8:161-162 Ag*63.

1. Vychodoslovenske celulozky a papierne, Hencovce.

CFRVINKA, Oliver, inz.; KASTIEL, Kazimir, inz.; SUTY, Ladislav, inz.

Use of ultraviolet absorption spectrophotometry in the cellulose industry. Pt.3. Papir a celulosa 19 no.2:36-38 F'64.

1. Vychodoslovenske celulozky a papierne, Hencovce (for Cervinka, and Kastiel). 2. Katedra chemickej technologie dreva a chemickych vlaken, Slovenska vysoka technicka, Bratislava.

CERVINKA, O.

LUKES, R., CERVINKA, O.

Preparation of Salts of Stachydrinol and N-Methyl-Prolinol from Piperidine, p.392.

(Chemicke Listy, Vol.47, No.3, Mar. 1953, Praha.)

SO: Monthly List of East European Accessions, Vol.2, No.9, Library of Congress, September 1953, Uncl.

N-methylprolinol (N-methylpyrrolidine). Pt. 2." p. 1027.

(Chemicke Listy. Vol. 47, No. 7, July 1953, Praha.)

CLIWIALL, C.

So: Monthly List of East European Accessions,/Library of Congress, harch 1954, Uncl.

CERVINKA, O.

Stereochemical process of the addition and elimination reactions.

P. 539 (Chemie) Vol. 9, No. 4, Aug. 1957, Czechoslovakia

SO: MONTHLY INDEX OF EAST EUROFEAN ACCESSIONS (EEAI) LC. - VOL. 7, NO. 1, JAN. 1958

Cervinka, 0

"Conditions of optical activity.

p. 637 (Chemie, Vol. 9, no. 5, Nov. 1957

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 6, June 1958

OFFICERVINA, O.

CZECHOSLOVAKIA/Organic Chemistry - Synthetic Organic

G-2

Chemistry.

: Ref Zhur - Khimiya, No 14, 1958, 46715 Abs Jour

: Otakar Cervinka, Frantisek Kavka Author

Inst

: Reduction of 5-Nitroso-2-Oxytoluene. Title

: Chem. listy, 1957, 51, No 8, 1517-1520 Orig Pub

: Dilute HoSOl4 is added drop by drop to an aqueous solu-Abstract

tion of Na-o-cresolate containing NaNO3 and cooled to -50, and CO2 is passed through at the same time; 5-nitroso-2-oxytulene (I), melting point 133 to 1340, is obtained at a 63%-ual yield. 5-Amino-2-oxytoluene (II), melting point 1740, is produced by the reduction of I on Pt in CH3CH at about 200 at a 37%-ual yield. II can be prepared also by the reduction of I with H2S

in 25%-ual NH40H at 45 to 50° (50%), or by the reduction of I with Sn and HCl acid (82%). At acetylation,

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CZECHOSLOVAKIA/Organic Chemistry - Synthetic Organic Chemistry.

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Abs Jour

: Ref Zhur - Khimiya, No 14, 1958, 46715

or formylation carried out by the usual method, 5-acety-lamino-2-oxytoluene (III), melting point 1700 (from water), or 5-formylamino-2-oxytoluene, melting point 148.5 to 1490 (from water), are produced corresponding by: A mixture hydrochlorides obtained by the reduction of 42.5 g of I with 67.5 g of powdered Fe in 330 ml 335-wal HCl acid is converted into a mixture of bases (51 g) with Na₂CO₃. This mixture is separated in a mixture of 65 ml of CH₃COOH and 450 ml of water based on different solubility. The soluble fraction produces 10.7 g of III being acetylated with (CH₃CO)₂O. The insoluble fraction is identified as 5-amino-4-chloro-2-oxytoluene (IV), melting point 2050 (dissociates; from water), after purification through hydrochlorode; N-acetyl derivative, melting point 1640 (from water). 5-Chloro-2-methyl-1,4-benzoquinone, melting point 1050

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CZECHOSLOVAKIA/Organic Chemistry - Synthetic Organic Chemistry.

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Abs Jour

: Ref Zhur - Khimiya, No 14, 1958, 46715

(from alcohol), is produced at the oxidation of V with MnO₂ in dilute H₂SO_h. 85 g of III is heated with 45 g of Raney's nickel in 750 ml of CH₂OH 4 hours and filtered off, evaporated to 500 ml, 10 g of fresh catalyst is added and all is hydrogenated 25 hours at 165 to 1850 under the initial pressure of 123 at. and 40 hours more at 240 to 250°. The following is obtained: 10.75 g of 2-methylcyclohexanol, boiling point 57 to 61°/8 mm, n20D = 1.4621; 13.2 g of 5-dimethylamino-2-methoxytoluene, boiling point 109 to 120°/8 mm; /picrate, melting point 173° (from alcohol); iodomethylate, melting point 206° (from alcohol); hydrochloride, melting point 165 to 166° (from Alcohol); and 8.7 g of a substance with the boiling point at 92 to 95°/0.2 mm and alkaline reaction. Trimethylamine, picrate, melting point 220 to 221° (from water) was found also in the

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CZECHOSLOVAKIA/Organic Chemistry - Synthetic Organic Chemistry.

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Abs Jour

: Ref Zhur - Khimiya, No 14, 1958, 46715

hydrogenation products 4.5 g of 4-acetylamino-2-methylcyclohemanol, melting point 180.5 to 181.5° (from acetone) and two unknown substances with boiling points at 73 to 75°/0135 mm (150 ml) and 140 to 155°/0.3 mm (400 mg) are received by hydrogenation of 10 g of III on 1 g of Raney's Co in 95 ml of alcohol in the duration of 90 min. at 170 to 180° and under 100 at. of initial pressure.

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G

Abs Jour: Ref. Zhur-Khimiya, No 19, 1958, 64493.

Author : Lukes Rudolf, Cervinka Otakar

Inst

Title : Synthesis of 4-Hydroxy-Methyl-Chinolicidine

Orig Pub: Chem. listy, 1957, 51, No 11, 2086-2089.

Abstract: To a solution of Grignard reagent (from 96.5 g. of 5-bromopentene-1 and 17.3 g. of Mg in 400 ml. ether), is added a solution of 49 g. of 1-methyl piperidone-2 in 20 ml. of ether. After boiling for 4 hours, there is precipitated during 12 hours 23.5 g. of 1-methyl-2-(pentenyl-4)-1,4,5,6-tetrahydropyridine (I), b.p. 100-104*/15 mm, along with 8.2 g. of impure 1-methyl-2-2-di(pentenyl-4)-piperidine (II); m.p. of picrate 103° (in aqueous alcohol). From the picrate is precipi-

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G
Abs Jour: Ref. Zhur-Khimiya, No 19, 1958, 64493.

tated the free base of (II), b.p. 145'/13 mm. Hydrolizing the hydrochloride of (I) over PtO₂ in water leads to 1-methyl-2-amylpiperadine, b.p. 91-92'/14mm, m.p. of picrate 108' (in aqueous alcohol; m.p. of picrolonate 117-118' (in water). Substituting HCOOH, and also electro-reducing, leads to the selective reduction of only the double bond in the piperidine ring. 1-methyl-2-(pentenyl-4)-piperidine (III), b.p. 91.5'/15 mm, n'0D 1.4648, is synthesized from 23.5 g. of (I), 71 g. of HCOOK and 71 g. of 98% HCOOH (150-155', 6 hours), distilling the base from an alkaline solution with steam; m.p. of picrate 84.5'. Upon the electro-reduction of (I) in 20% H.SO4 at 12 volts and 1 ampere, (III) is produced. From 6.8 g. of (III) in 15 ml. of 48% HBr and 2.1 ml Br, and after cooling,

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G
Abs Jour: Ref. Zhur-Khimiya, No 19, 1958, 64493.

18 g. of the bromohydrate of 1-methyl-2-(4,5-dibromopentyl)-piperidine (IV) are produced, m.p. 137-139°. Upon the heating (80°, 4 hours) of an aqueous solution of (IV) and Ag₂O, after neutralization with HBr acid and the addition of picrino-acid Na, there is produced picrino-acid N,4-dimethyl-1,2,5,6,7,8,9,10-octahydro-chinolicidine (V), m.p. 222° (in water). From 1 g. (V) by means of conc. HCl, there is synthesized the corresponding chlormethylate, the hydrogenation of which (~20°, 760 mm) over PtO₂ gives the picrinic acid N, 4-dimethylchinolicidine, m.p. 243-244° (in alochol). The cyclization of (IV) with the aid of CH₃COOAg, without the separation of intermediate products, produces by direct means both diastereoisomeric 4-hydroxymethyl-chinolicidines. The mixture of 4 g. (IV) in 30 ml of

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G
Abs Jour: Ref. Zhur-Khimiya, No 19, 1958, 64493.

water and 6 g. CH.COOAg, left for 7 days, saturated with H.S., produces a coagulate which is filtered off, acidulated with 3 ml. glacial CH.COOH, and subjected to thermal decomposition by distilling under normal pressure. The distillate is alkalized, and the base distilled with steam to yield 1 g. 4-hydroxymethylchinolicidine, b.p. 81°/0.5 mm, n²⁴ D 1,4909.

Card : 4/4

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CERVINKH, O.

CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic G Chemistry.

Abs Jour: Ref Zhur-Khimiya, No 20, 1958, 67525.

Author : Lukes R., Cervinka O.

Inst : Not given.

Title : Reduction of 1-Methyl -2-Alkyl- 1,4,5,6-Tetra-

hydropyridines with Formic Acid.

Orig Pub: Chem. listy, 1957, 51, No 11, 2142-2144.

Abstract: When a mixture containing 1 part of 1-methyl-2-alkyl-1, 4,5,6-tetrahydropyridines, 5 parts of 98% formic acid, and 5 parts of HCOOK is heated to 150-1550 for 6 hours, 1 methyl-2-alkylpiperidines (I) are formed. Radicals are separated after alkalization of the reaction product followed by steam distillation, neutralization of the distillate with HC1 (acid), and precipitation with sodium picrate.

Card 1/2

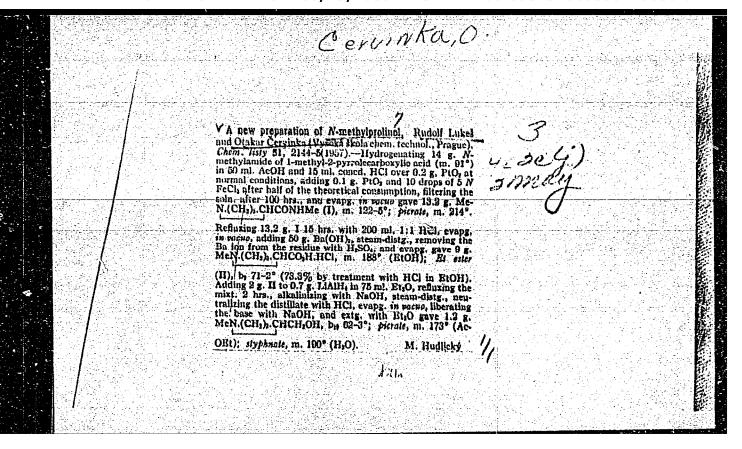
51

CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic G Chemistry.

Abs Jour: Ref Zhur-Khimiya, No 20, 1958, 67525.

Abstract: Picrates are alkalized with NaOH and steam distilled. By the described method the following I compounds were obtained (given: alkyl group, yield in %, boiling point in °C/mm, melting point of the picrate in °C): CH3, 91.2, 127/750, 240-241; C2H5, 94.5, 146-147/740, 174-175; n-C3H7, 95.8, 174-176//740, 111-112; n-C4H9, 96.8, 73-74/12, 87-88; n-C5H11, 92.2, 91-92/14 198; C6H5CH2, 96.2, 124/13, 178-179.

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CZECHOSLOVAKIA / Organic Chemistry. Synthosis.

G-2

Abs Jour: Ref Zhur-Khimiya, No 5, 1959, 8245.

Author : Cervinka, O. Kavka, F.

Inst : Not given.

Title : Reduction of 5-Nitroso-2-Hydroxy-Toluene.

Orig Pub: Collect. czechosl. chem. commun., 1958, 23,

No 6, 1090-1094.

Abstract: Sec RZhKhim, 1958, 46715.

Card 1/1

83

Country : Czechoslovakia G-2 Category : Organio Chemistry. Synthetic Organio Chemistry

Abs. Jour.: Ref. Zhur.-Khimiya No. 6, 1959 19475

Author : Lukes, R.; Cervinka, C.

Institut.
Title: Synthesis of 4-Hydroxymathyl-Quinolizidine.

Orig Pub. : Collect. czechosl. chem. commun., 1958, 23,

No 7, 1336-1340

Abstract : See RZhKhim, 1958, 64493.

card: 1/1

CZECHCSLOVAKIA/Organic Chemistry. Natural Products and Their Synthetic Analogues.

G-3

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81784

Author : Cervinks Q. TECH UNIV.) PRINCE.
Inst : TECH UNIV.) PRINCE.

Inst : The Stereospecific Synthesis of PL-Pseudo-Heliotridane

Orig Pub: Chem. listy, 1958, 52, No 2, 307-310

Abstract: By the reaction of CH, BrCOOC, H, on 1-methyl-2-ethyl
^2-pyrroline (I), the ethoxycarbonyl group connects
with the (^ -carbonyl group on the side chain. (See
R. Zh Khim, 1958, 70863) The unseparated product
was reduced stereospecifically with formic acid or
NaBH, with the formation of erythro-DL- (N-methyl
pyrrolydyl-2)-butyric ester, which was converted into

Card : 1/4

CZECHOSLOVAKIA/Organic Chemistry. Natural Products and Their Synthetic Analogues.

G-3

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81784.

DL-pseudbhelibtridane; free-frem:the presence of the diastereoisomer of heliotridane, by the reduction with MBr (acid), and by making the solution alkaline and cleaving the acetate radical. The ethyl ester of erythro DL- (N-methylpyrolydyl-2-)-butyric acid, C::H2:ON (II), b p. 98-100°C/11 mm., was synthesized by allowing I to react for 3 days with CH::BrCCCC.H5- in dioxane and boiling for one hour, separating the oil that formed, heating the latter with 98% HCOOH, acidifying with HCl (acid), saturation with HCl (gas), boiling (for 1 hour) distillation and making it alkaline with scda ash; yield 43.9%. Erithro-DL-3-(N-methyl pyrrolydyl-2')-butanol-1, C::H::QON, was obtained from II or from the bornyl ester by boiling with LiAlH4 in

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57

CZECHOSLOVAKIA/Organic Chemistry. Natural Products and Their Synthetic Analogues

G-3

Abs Jour: Ref Zhur-Khim. No 24, 1958, 81784

ether, b.p 108-110°C./11 nm, picrate, m.p. 153-153.5 C. The product was heated to 130-135°C. with HBr (acid) in a welded tube for 4.5 hours, distilled, dissolved in water, left with Agy0 for one day, filtered off, acidified with acetic acid and distilled; there was obtained a 41.7% yield of DL pseudoheliotridane, C.H.N; picrate, m.p. 233°C.; pycrolonate, m.p. 166-167°C.; metapicrate, C.H.10°N, m.p. 268-269°C (with partial decomposition). Bromacetic ester of (+)-borneol, C.H.10.Br, b.p. 152-154°C./17 mm, L.N. D. + 17.6°, was obtained by azeotropic esterification. Upon standing for one week with I in dioxane, by boiling the mixture and by boiling with NaBH. for 3 hours, erythro- 3 -(N-methyl pyrrolydyl-2)-butyric ester of borneol was obtained, C/7H.20.N,

Card : 3/4

CZECHOSLOVAKIA/Crganic Chemistry. Natural Products and Their Synthetic Analogues.

G-3

Abs Jour: Ref Zhur-Khim., No 24, 1958, 81784.

5.p. $157-162^{\circ}\text{C}/2 \text{ mm.}$, $\int \mathcal{X} \int^{2} \mathbf{D} + 22.56^{\circ}$ (chloroform). The asymmetric synthesis does not take place by the reduction, and the base obtained is optically inactive. The prospective mechanism for the formation of pseudoheliotridane is given.

Card: 4/4

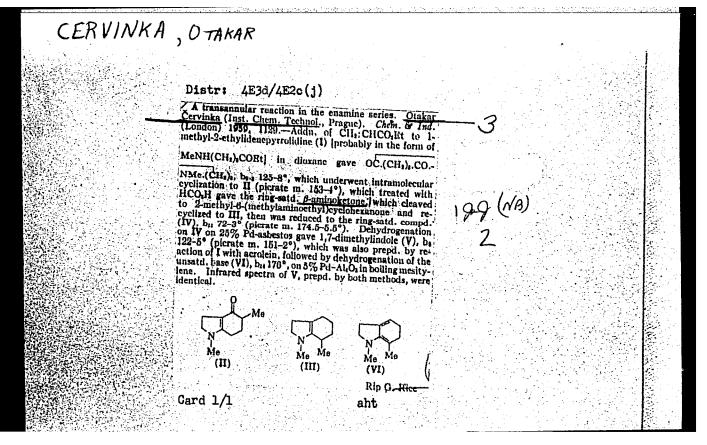
58

G-2 : Czechoslovakia Country 'Category 45761 Abs. Jour : Rongina Vysoké skola chen-technol. Traque! Author Insultut. : The Reaction of Grignard Reagents with Cyclic 11110 Imi.no-Ethers : Chem Listy, 52, No 6, 1145-1149 (1958) Oris Pub. : The author has investigated the reduction and Abstract the action of RMgX on O-methylbutyrolactim (I), O-methylvalerolactim (II), and O-methylcaprolactim (III). The reduction of I, II, and III by LiAlH, gives pyrrolidine, piperidine, and hexamethyleneimine, respectively. Piperidine is also obtained by the catalytic hydrogenation of II over PtO2. The reaction of II with CH, MgI gives 2-methyl-Δ 1-piperideine (V). III and CH₂ =CH(CH₂), MgBr gives 1-aza-2-(4-pentenyl)-1-cycloheptene (VI) as Card: 1/4

G-2 : GDR Country Category 45761 Abs. Jour : author Institut. : Title Orig Pub. : : well as (apparently) 1-methylamino-10-undecene-Abstract 6-one (VII). 2-piperidone, yield 68.3%, bp 138°/
14 mm, is obtained from cyclopentanone oxime in 5% oleum at 150°. The separation of free aminovaleric acid, which lactimizes on vacuum distillation, is more convenient. A boiling solution of 95 gms 2-piperidone (obtained by the vacuum distillation of aminovaleric acid) in 260 ml benzene is treated with 118 gms (CH,), SO, over 4 hrs, the solution is stirred for 16 hrs over a

G-2 : GDR Country Category 45761 Abs. Jour Author Institut. Tivio Oris Pub. : water bath, and II is isolated after alkaliniza-Abstract tion with 50% K2 CO3, yield 56.5°, op 145-147°/740 mm, 43-44°/15 mm, and 34°/9 mm; picrate mp 107° (from alc). The application of a similar procedure to 2-pyrrolidone gives I, yield 30.9%, bp 115-118° (together with 10-4% N-methylpyrrolidone) A boiling solution of CH, MgI (from 4.4 gms Mg) in 100 ml dibutyl ether is treated with 11.3 gms II and the mixture is refluxed for 8 hrs; steam distillation gives IV, yield 42.2%, bp 129-131°, Card: 3/4

Country : GDR G-2 Category Abs. Jour 45761 Author Institut. Title Orig Pub. Abstract : picrate mp 121-122°. A similar procedure is used in the preparation of V, yield 43.1%, bp 62-63°/ 14 mm, n¹⁶D 1.4661, picrolonate mp 141°. The hydrogenation of V-HCl in water over PtO, gives 2propylpiperidine, bp 51-52°/15 mm, hydroc'ilcride mp 214° (from alc-ether), hydrobromide mp 2:1° (from alc-ether). 0.2 mol III in dibubyl wher (4-hr reflux) gives 8.2 gms VI, bp 130-335"/14.5mm, m20 D 1.4806, and 2.4 gms VII, op 145°/18 mm. n²⁰ D 1.4730. J. Plesek Card: 4/4



CERVINKA, O.; LUKES, R.

"Reduction of 1-methyl-2-alkyl-1,h,5,6-tetrahydropyridines with formic acid" In German. p. 309.

COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS, Praha, Czech., Vol. 24, No. 1, Jan 1959

Monthly List of East European Accessions (EEAI), Lc, Vol. 8, No. 6, Sept. 59 Unclassified

-- Decimal Drivela LRTHUCO CATEGORI ABS. JOUR. : RZKhim., No. 1959, No. SEECH : Lukes, H.; Dienstbierova, V.; Cervirka, C. AUTHOR INST. : On the holder of Trighted Resent with Isrollorate of 1-kethyl-2-Alkyl-PITLE Pyroline ORIG. PUB. : Collect. Oxechool. Chem. Communs, 1959, 84 No 1, 428-436 : See AMBris, 1959, No 15, 53420. ABSTRACT CARD: -145

	:	CZECHOSLOVAKIA Organic Chemistry. Synthetic Organic Chemistry	
ABS. JOUR.	:	RZKhim., No. 1 1960, No. 1119	
AUTHOR	:	Cervinka, 0.	
INST. TITLE	:	Action of Grignard Reagents on Cyclic Imino- Ethers	
ORIG. PUB.	:	Collect. Czechosl. Chem. Communs, 1959, 24, No 4, 1146-1150	
ABSTRACT	:		
CAPD:		1/1	•
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CERVINKA, O.

Instifer Organic Chemistry Enamines. III. Addition reaction of 1-methyl-2-alkyl-1 2-piperideines with acrolein and ethyl acrylate. O. Cervinka (Vysoka skola chem. technol., Prague). Collection Czech. Chem. Communs. 25, 1174-82(1960)(in German); cf. CA 52, 5381i, 11004c.--Addn. reaction of 1,2-dimethyl-A 2-piperideine (I) with AcCl and hydrogenation gave 1,2-dimethyl-3-acetylpiperidine (II). I and acrolein (III) gave 1-methylhexahydrcquinoline (IV) with undetd. double bonds. Analogously, 1-methyl-2-ethyl- \(\Delta ^2 - \text{piperi-} \) deine (V) gave 1,8-dimethylhexahydroquinoline (VI). Dehydrogenation of IV and VI gave the 1-Me (VII) and 1,8-di-Me (VIII) derivs., resp., of 1,2,3,4-tetrahydroquinoline. I and Et acrylate (IX) gave a mixt, of 1.2-dimethyl-3_(β -ethoxycarbonylethyl)- Λ^2 -piperideine (X), l-methyl-2-(γ -ethoxycarbonylpropyl)- Λ^2 -piperideine (XI), and a compd. $C_{10}H_{15}NO$, probably l-methyl-1.2.3.4.5,6.7.10-octahydro-7-quinolone (XII). Keeping 0.7 g. I. excess Accl. and 5 ml. Et. 0 3 days at room temp., decanting the ethereal soln., dissolving the residue in EtOH, removing the unreacted I with Nacl04. hydrogenating the mother liquor on PtO_2 . filtering the catalyst, and pptg. the filtrate with satd. aq. Na picrate gave II picrate, m. 195-6° (H_2O). Keeping 0.9 g. I, 0.45 g. III, and 5 ml. anhyd. dioxane 24 hrs. at room temp. and distg. gave 0.5 g. IV. b₁₀ 89-93°. S'milarly, 4.6 g. V. 2 g. III. and 25 ml. dioxane gave 2.7 g. VI. b₁₁ 97-9°, n₂0 1.5268 (max. at 730, 1595, 1650, 1675, 1710, and 3020 cm. 1 in CCl₁); perchlorate m. 179-80° (EtoH). Heating 0.2 g. IV, 3 ml. mesitylene, and 0.5 g. 5 Pd/Al₂0₃ to the b.p., dilg. the cooled mixt. with Et₂0, removing the catalyst, and pptg. the filtrate with ethereal picric acid gave VII picrate, m. 135-6 (EtOH). Similarly, VI gave VIII, b14 112-14, picrate m. 166-6.50

Card 1/4

(aq. BtOH) undepressed with a sample prepd. on hydrogenation of 8-methylquinoline methiodide, m. 182-2.5° (EtOH), in aq. AcOH on PtO2 and pptn. with aq. Ma picrate.

Heating 0.7 g. VI, 4 ml. 95% HCO2H, and 4 g. fused HCO2K 5 hrs. at 160°, and working up as usual gave 0.5 g. 1.8-dimethyloctahydroquinoline (position of the double bond undetd.), b15 90-2°; picrate m. 171-2° (EtOH). Hydrogenation of aq. VI HCl salt on PtO2 gave 75% 1.8-dimethyldecahydroquinoline, b14 100-2°; picrate m. 146-7° (EtOH). Keeping 3.3 g. I (b62 71-2°, purified via the perchlorate), 3 g. IX, and 20 ml. anhyd, dioxane 4 days at room temp. and distg. gave 3 g. mixt. of I and XI, b1 106-8° (max. at 1564, 1645, and 1730 cm. 1 in CCl4) and 1.6 g. XII. b1 170-90°, m. 79.5° (Et20) (max. at 1260, 1320, 1363, 1412, 1450, 1560, and 1625 cm. 1 in CCl4), picrate m. 176-6.5° (aq. EtOH). Redn. of 0.2 g. XII with 0.5 g. LiAlH4 in Et20 gave 0.18 g. 4-(γ-methylaminopropyl)eyclohexanone, b8 124-5° (max. at 1235, 1282, 1308, 1338, 1368, 1710, 2630, and 2700, and a band at 3200-400 cm. 1 in CCl4), picrate m. 170-1° (H.O). Hydrogenation of the X and XI mixt. in EtOH on FtO2 gave 94% mixt. of 1-methyl-3-(β-ethoxycarbonylethyl)-2-pipecoline and 1-methyl-2-(γ-ethoxycarbonylpropyl)-piperidine, b0 128-30° (max. at 1740 cm. 1 in CCl4). This mixt. was reduced with 11AlH4 in Et20 to give 95% mixt. of the corresponding amino-alcs., b8 135-6°, which (1.8 g.) was dissolved in 15 ml. aq. HBr. satd. with gaseous HBr and heated in a sealed tube 4 hrs. at 140-50°, Evaps. the soln. in vacuo, dilg. with 50 ml. H.O. removing the Br ions with frashly prepd. Ag.0, after 2 days evaps. the filtrate in vacuo to 5 ml., acidifying the residue with 15 ml. AcOH, dry distg. on a wire

gauze, alkalinizing the distillate with aq. NaOH, steam distg., neutralizing the distillate with N HCl, evapg. to dryness in vacuo, and liberating the bases as usual gave an oil, bg 57-8.5°, np 1.4760, which was pptd. with picric acid in Et₂0. Crystn. from EtOH gave 9-methyl-1-azabicyclo[1.3.3]nonane picrate, needles, m. 280° (aq. EtOH) (decompn.) [the base be 56-7°], and quinolizidine picrate, leaflets, m. 195° (EtOH), in ratio 9:1. IV. Addition reaction of 1-methyl-2-alkyl-Δ -pyrrolines with ethyl acrylate. Ibid. 1183-9.—Condensation of 1.2-dimethyl-Δ -pyrroline (I) with Et acrylate (II) gave a mixt. of 1.2-dimethyl-3-(β -ethoxycarbonylethyl)-Δ 2-pyrroline (III), 1-methyl-2-(γ -ethoxycarbonylpropyl)-Δ 2-pyrroline (IV), and a compd. CoH₁₃NC, probably 1-methylhexahydro-Δ -indol-4-one (V) or 1-methylhexahydro-Δ -indol-6-one (VI). In several steps, the mixt. of III and IV gave 8-methyl-1-azabicyclo[1.2.3]octane (VII) and 6 -coniceine (VIII) in the ratio 85:15. Condensation of 1-methyl-2-ethylidenepyrrolidine (IX) with II gave unexpectedly a compd. CloH₁₇NO₂, probably 1.5-dimethyl-1-azacyclononane-2.6-dione (X) together with its intramolecular cyclization product, 1.5-dimethylhexahydro-Δ -indol-4-one (XII). HCO₂H redn. of the I and XI mixt. gave 1.7-dimethyloctahydroindole (XIII). Keeping 4 g. I. 4 g. II. and 20 ml. anhyd. inxane 4 days at moom temp. and distg. gave 3.95 g. mixt. of HI and IV. blo 118-19° (max. at 1605, 1665, and 1740 cm.-1), and 1.1 g. V or VI. bo. 1 138-41°, m. 106-7° (Et₂O) (max. at 1410 and 1605, and inflection at 1645 cm.-1), picrate m. 161-2° (EtOH). Hydrogenation of the III and 1V mixt. in EtOH on PtO₂ gave 35 mixt. of the corresponding satd. esters (bg 102-3°), which were reduced with LiAlH₀ in Et₂O to yield 91% mixt. of the corresponding amino alcs., bg 117-19°. Satg. at 0° 1.8 g. latter mixt. in 20 ml.

ad. HBr with HBr, heating in a sealed tube 6 hrs. at 135-40°, evapg., treating the residue with 50 ml. H₂O and freshly prepd. Ag₂O to remove the Br ions, after 4 days filtering, evapg. the filtrate in vacuo to 5 ml., neutralizing the residue with 20 ml. AcOH, dry distg. the soln. [methopicrate m. 310° (decompn.)] on a wire gauze, and working up the distillate by crystn. of the picrates in H₂O gave VII. b₃₀ 72-4°, picrate m. 315° (H₂O)(decompn.); VIII picrate m. 230-1°. Keeping 4.4 g. II. and 20 ml. dioxane 10 days at room temp. and distg. gave 4.9 gi I. b_{0.3} 125-8° (max. at 1415, 1455, 1515, 1580, 1625, 1740, and 2800 cm. 1) which spontaneously changed into XI; picrate m. 153-4° (H₂O). Heating 2.5 g. I and II mixt., 10 ml. 95% HCO₂H, and 10 g. fused HCO₂K 6 hrs. at 160-70° and working up as usual gave 1.5 g. XII., b₁₁ 72-3°; picrate m. 174.5-5.5° (H₂O). Dehydrogenation of XII on Pd/asbestos gave 72% 1.7-dimethylindole, b₀ 122-3°, m. 76.5-7.5° [picrate m. 151-2° (G6H₆)] obtained (yield 43%) also (Ireland, CA 53, 2205h) by dehydrogenation (Pd/Al₂O₃ in mesitylene) of the unstable tetrahydrobase, b₁₄ 176°, prepd. (yield 70%) by keeping 3.3 g. IX. 1.1 g. acrolein, and 20 ml. dioxane 45 hrs. at room temp. and distg.

(Retyped clipped abstract)

Card 4/4

CERVINKA, O.

Reactions of enamines. V. Combining ethyl acrylate with 1-methyl-2-ethyl- Δ 2-piperideine. Coll Cz chem 25 no.10:2675-2678 0 '60. (EEAI 10:9)

1. Institut fur organische Chemie, Technische Hochschule fur Chemie, Prag.

(Ethyl acrylate) (Tetrahydromethylpyridine)
(Amines) (Ethyl group)

CERVINKA, O.

1. Institut fur organische Chemie, Technische Hochschule fur Chemie, Prag.

(Alkyl groups) (Perchlorates) (Alkoxy groups)
(Aluminumli thium hydride) (Stetrahydrome thylpyridine)

CERVINKA, O.; PELZ, K.; JIRKOVSKY, I.

Synthesis of the alkaloid of trachelanthamidine. Coll Cz Chem 26 no.12:3116-3122 D '61.

1. Institut fur organische Chemie, Technische Hochschule fur Chemie, Prag 2.Jetzige adresse: Forschungsinstitut fur Pharmazie und Biochemie, Prag (for Pelz and Jirkovsky).

CERVINKA, O.; BELOVSKY, O.

Synthesis of the alkaloid edulein. Coll Cz Chem 26 no.12:3181-3182 D '61.

1. Institut fur organische Chemie, Technische Hochschule fur Chemie, Prag.

CERVINKA, O.; FABRYOVA, A.; MATOUCHOVA, L.

Reactions of enamines. Pt.8. Cell Cs Chem 28 no.2:535-538 F '63.

1. Institut fur organische Chemie, Technische Hechschule fur Chemie, Prag.

CZECHOSLOVAKIA

CERVINKA, O; BELOVSKY, O; ADAMEK, P.

- 1. Department of Organic Chemistry of the Institute of Chemical Technology, Prague; 2. Department of Special Analytic Methods of the Institute of Chemical Technology, Prague
- Prague, Collection of Czechoslovak Chemical Communications, No 10, 1955, pp 2462-3467
- "Asymmetric Reactions. VIII. Ultra-Violet and Infra-Red Spectra of Methylaryl Ketones, Cyclohexylaryl Ketones and Diaryl Ketones."

CERVINKA, O.

Asymmetric reactions. Pts.3,5. Coll Cz Chem 30 no.5:1684-1692, 1738-1741 My '65.

1. Department of Organic Chemistry of the Institute of Chemical Technology, Prague. Submitted August 18 and September 1, 1964.

CERVINKA, O.; SUCHAN, V.; MASAR, B.

Asymmetric reactions. Pt.4. Coll Cz Chem 30 no.5:1693-1699 My 165.

1. Department of Organic Chemistry of the Institute of Chemical Technology, Prague. Submitted August 13, 1964.

CERVINKA, O.; KRIZ, O.

Reactions of anamines. Pt.11. Coll Cz Chem 30 no.5:1700-1704 My 165.

1. Department of Organic Chemistry of the Institute of Chemical Technology, Prague. Submitted August 18, 1964.

CERVINKA, O.; KATRITZKY, A.R.

Reactions of enamines. Pt.10. Coll Cz Chem 30 no.5:1736-1738 My '65.

1. Department of Organic Chemistry of the Institute of Chemical Technology, Prague. Submitted August 18, 1964.

CERVINKA, O.; FABRYOVA; A.; NOVAK, V.

Data on the configuration of S-(-)- \int -aminocaproic acid. Coll Cz Chem 30 no.5:1742-1744 My 165.

1. Institut fur organische Chemie, Technische Hochschule fur Chemie, Pragne. Submitted September 22, 1964.

CERVINKA, O.

Once again on chemical orthography. Chem listy 59 no.3:356-357 Mr *65.

CZECHOSLOVAKIA

CERVINKA, O

Department of Organic Chemistry, Institute of Chemical Technology, Prague

Prague, Collection of Csechoslovak Chemical Communications, No 3, March 1966, pp 1371-1376

"Asymmetric Feactions. Part 9: Asymmetric transformation as a means for determination of absolute configuration of amines, amino alcohols, amino acids and amino sugars."

PG Dena	rtment of Orga	r; Hub, Ladislav nic Chemistry, College e, Vysoka skola chemich	of Chemical Technol co-technologicka)	logy, Prague g	
TITLE: StoomCE: COPIC TAGS	eric course of hemicke listy, : enzyme, ste	enzymatic reductions no. 1, 1966, 34-50 reochemistry, redox rea		olecular structure,	
organic phassTRACT: center or reaction containi	osphorus compositions of Stereospectric asymmetry is discussing in their	und ific reactions are is eliminated. The ed. Mechanism of a molecule a pyridine and those that do a	such reactions to nature of asymmetries by dehibition by dehibition is not take place by	where a metric ydrogenases described. y direct	
transfer are disc evaluate which is decisive	of a group ussed. Ster d. It seems the basis (in the nati	in respect to their ic relationships in that that part of the substrate and resolution the reaction res, il formulas and 2	r stereospecific n enzymatic redu the molecule of d product specif effected by a g	ctions are an enzyme icity is	

L 31590-66 SOURCE CODE: CZ/0008/65/000/009/1058/1062 ACC NR. AP6022958 23 AUTHOR: Cervinka, Otakar ORG: Department of Organic Chemistry, College of Chemical Engineering, Prague (Katedra organicke chemie, Vysoka skola chemicko-technologicka) TITIE: Reduction of the pyridine ring by formic acid (Lukes reaction) SOURCE: Chemicke listy, no. 9, 1965, 1058-1062 TOPIC TAGS: pyridine, formic acid, chemical reduction : ABSTRACT: Pyridine is not reduced by formic acid, but the quaternary salts and their homologues are. When the quaternary salt is heated with formic acid and its K salt, a mixture of N-alkyl-1,2,5,6-tetrahydropyridine and N-alkyl- Δ^3 piperidines is formed. As these can be easily separated the method is used at present for the preparation of N-alkyl- Δ^3 -piperidines. The mechanism of the reduction is described. The attack affects mainly the C6 because the density of the electrons on this carbon is lower than on C2. [JPRS] SUB CODE: 07 / SUBM DATE: none / ORIG REF: 012 / SOV REF: 001 OTH REF: 001 0915

CHEVINEA, Manielav

Construction of a large storage buidling in Strasnice. Tech praca 16 no.2:94-96 F'64.

MAZAK, Jaroslav; CERVINKA, Stanislav

Thirty-five years of modern building engineering. Tech praca 16 no. 10: 789-792 0 '64.

___CERVINKA, Stanislav (Prague)

Electrical engineering and electric maintenance service in Poland. Tech praca 17 no.3:185 Mr '65.

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CERVINKA,	, Vaclav	OMONEOM	
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		C. 10)	
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CERVINSKI, P.

"Economic use of wood in the construction of galleries in coal mines and metallic deposits"

Buletin. Seria Shkencat Natyrore. Tirane, Albania. Vol. 12, no. 4, 1958

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CERVA, Lubor; CERVOVA, Helena

The occurrence of Trichomonas intestinalis in women and the relation of this infection to vaginal trichomoniasis. Cesk. epidem.mikrob.imun.10 no.2:128-133 N= 161.

1. Krajska hygienicko-epidemiologicka stanice Stredoceskeho kraje; Ustredni hygienicko-epidemiologicka stanice WP v Prase. (TRICHOMOMAS IMPECTIONS statist) (VAGINA dis)

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"Natural reservations of the German Democratic Republic. II. Biggest protected area on Muritz Lake and the Muritzhof school"

Ochrana Prirody. Praha, Czechoslovakia. Vol. 10, no. 6, July 1955

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CERYCHOVA, Z.

An ear device for the photocolorimetry of live tissues.

P. 57, (Sbirke Vynalezu) Vel. 6, nel 3, Mar. 1957, Praha, Czechoslevakia

SO: Monthly Index of East European Acessions (EFAI) Vol. 6, No. 11 November 1957

HERDA, M., inz. CSc.; CESAK, K., inz.; WEBER, B., inz.; VYHNANEK, V., inz.; KUNICKY, L., inz.; SIMEK, J., inz.; PROSTREDNIK, K., inz.

Maps for area planning and records of the built constructions. Good kart obzor 10 no.9/10:232-235 0 164

Chemical Abstracts May 25, 1954 Sugar, Starch and Gums Chemical Abstracts Automatic molasses sampler. Miroslav Cesal & Vladim Valter. Litty Cukronar. 69, 201(1953).—An app. is described of very simple construction for use by nontech, personnel. Jos. Lederer	
Chemical Abstracts May 25, 1954 Sugar, Starch and Gume Automatic molasses sampler. Miroslav Cesal & Vladim Valter. Listy Cukrovar. 69, 201(1953).—An app. is d scribed of very simple construction for use by nontech. pe	
May 25, 1954 May 25, 1954 Valter. Listy Cukrovar. 69, 201(1953).—An app. is d Sugar, Starch and Gime Scribed of very simple construction for use by nontech, pe	
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AUTHORS: Turek, Z., Engineer and Cesanek, J.

TITLE: Application of radioisotopes in research on machining

PERIODICAL: Strojírenství, 1961, Vol.11, No.9, pp.682-688

TEXT: Detailed information is given on testing the wear of cutting tips by using radioactive tungsten. Due to its very short half-life (24.1 hours), the experiments must be carried out within the shortest possible time. However, the short half-life within the shortest possible time. However, the short half-life within the shortest possible time. However, the short half-life within the shortest possible time. However, the short half-life within the shortest possible time. However, the short half-life within the shortest possible time. However, the short half-life within the facilitates handling of the wastes after the tests. In the experiments, a current lathe was used which was suitably adapted and fully enclosed. A sketch of the cutting tool with the mechanically held carbide tip is shown in Fig. 3. The tool mechanically held carbide tip is shown in Fig. 5. The radioactive angle of lands $\gamma_c = -5^\circ$, land width $\gamma_c = -5^\circ$, land

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machining off a layer of a certain thickness, the volume of the machined off material is the same at the various diameters. All the chips and all the products of the wear of the tool are caught inside a cover surrounding the piece being machined. The process of blunting of carbide tipped tools can be subdivided into three stages: initial accelerated blunting, uniform blunting at a normal rate and final avalanche type blunting. In the experiments, a certain amount of preliminary blunting (for 8 to 15 min) was carried out so that the experiments themselves are in the range of uniform blunting. The number of pulses obtained by a scintillator depends to a large extent on the geometrical shape of the chip specimens and on the position of the scintillator. For specimens of six differing shapes, the frequency of pulses per 1 g of chips varied between 26 and 53. In the tests cylindrical specimens of 72 mm diameter, 10 mm thick, weighing 100 g were used. These were chosen due to their simplicity, easy and quick preparation and also because they provided a sufficiently large pulse frequency. Fig.10 shows the characteristic wear obtained for the Czech carbide S 1 in the machining of the steel 12 060.1 (v = 160 m/min, s = 02 mm/rev, Card 2/6

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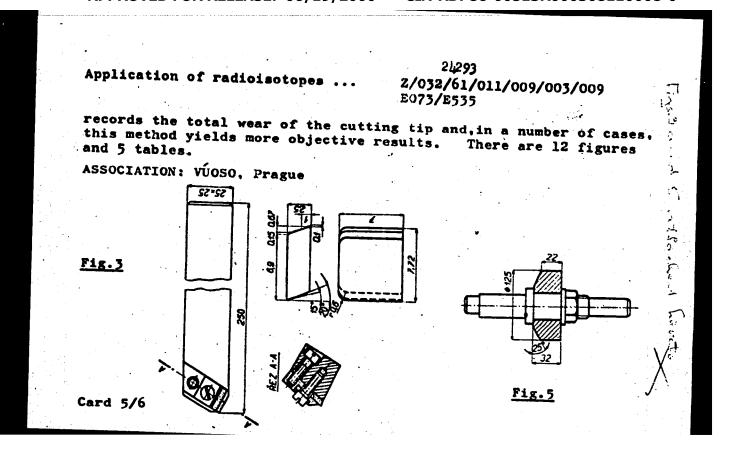
t=2 mm). Curve a gives the wear at the back of the tool b_h , mm as a function of time, determined from a sequence of photographs, curve b shows the results obtained from measuring the radiation activity (total number of pulses), also as a function of time. Fig. 11 shows the rate of blunting of the same carbide tip as referred to in Fig. 10 (pulses/min vs. time, min and quantity of chips, kg). It can be seen that the method is sufficiently sensitive to give information on the rate of blunting in a much shorter time than is possible by means of an optical microscope. About 5% of the total worn off material stuck to the machined surface. Since the quantity of the tool material on the machined surface is relatively small, it can be disregarded. The dust precipitated on the walls of the cover amounted to an average of 14% of the total tool wear. Analysis of the distribution and scatter of the results for various materials led to the preliminary conclusion that during the further machining tests only the fraction which adheres to the chips will be measured. Standard type machineability tests take a long time and VÚOSO developed and tested a short-time method of testing the machineability which is



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based on the assumption that even the initial accelerated blunting is proportional to their final blunting. Accordingly, the machining on the lathe is carried on for a shorter time to achieve a smaller blunting and, in the same way as in current type tests, the machining speeds are compared. The machineability of a certain material is determined by reference to a comparison material, i.e. by the ratio of the machining speed of the investigated material, v₆₀, and the machining speed of the corresponding reference material, v_{60r}, to obtain the same tool life. In the case of tests with radioisotopes the same principle is applied, i.e. the coefficient of machineability is determined from the ratio of the pulses generated by the chips of the reference material to the frequency of the pulses from the chips of the test material. It is stated that the machineability coefficients determined from the pulse frequencies (average values from five measurements) are in good agreement with the respective values determined from the machining speed in short duration tests. The tests based on optically determined machineability only take into consideration the wear on the back of the tool, whilst the radioisotope method Card 4/6



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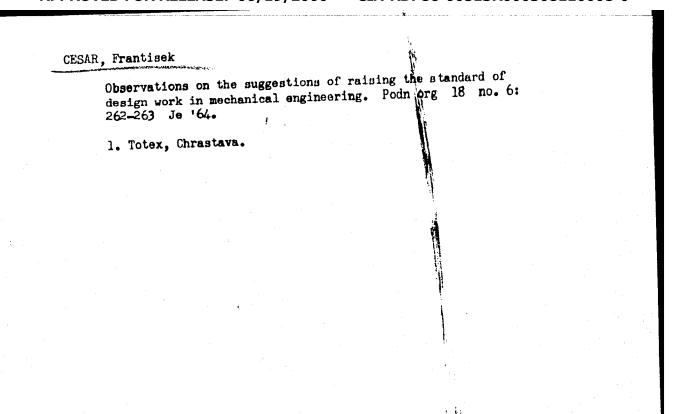
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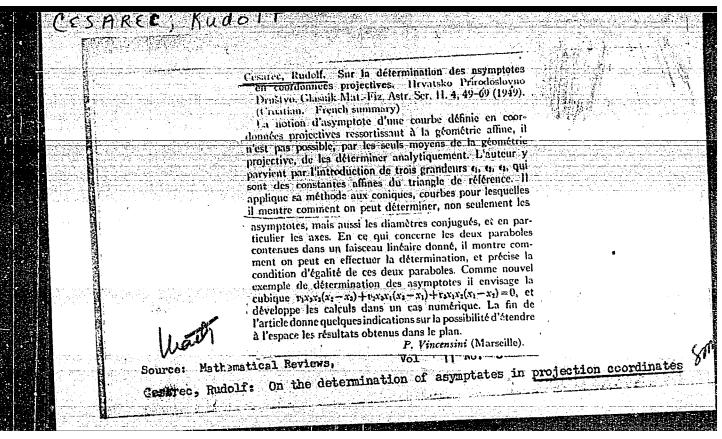
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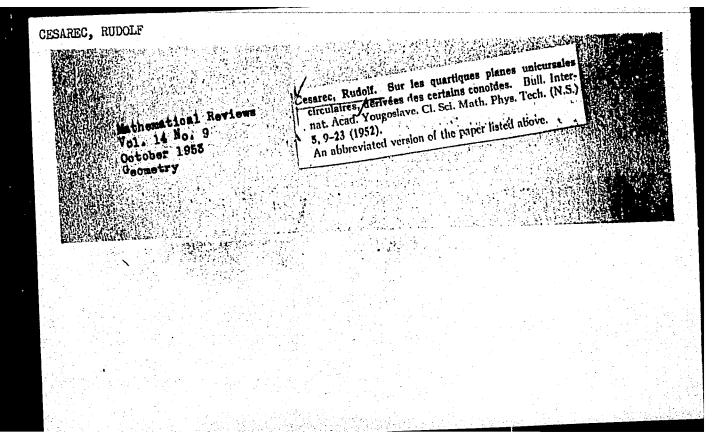
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